BBA

Biomembranes

Vol. 1063, 1991

Cumulative Contents

Editorial vii

Regular Papers

Phosphoinositide–protein interactions of the plasma-membrane Ca^{2+}-transport ATPase as revealed by fluorescence energy transfer
J. Verbist, T.W.J. Gadella Jr., L. Raeymaekers, F. Wuytack, K.W.A. Wirtz and R. Casteels (Belgium, The Netherlands) 1

Oxytocin pretreatment of pregnant rat uterus inhibits Ca^{2+} uptake in plasma membrane and sarcoplasmic reticulum
M. Magocsi and J.T. Penniston (U.S.A.) 7

Expression of isoforms of internal Ca^{2+} pump in cardiac, smooth muscle and non-muscle tissues
G.G. Spencer, X. Yu, I. Khan and A.K. Grover (Canada) 15

Immunological recognition of sodium/D-glucose cotransporter from renal brush border membranes by polyclonal antibodies
C. Gérardi-Laffin, C. Vittori, P. Sudaka and J.C. Poirée (France) 21

Sodium-dependent phosphate and alanine transports but sodium-independent hexose transport in type II alveolar epithelial cells in primary culture
C. Clerici, P. Soler and G. Saumon (France) 27

Ion channel formation by synthetic transmembrane segments of the inhibitory glycine receptor – a model study
D. Langosch, K. Hartung, E. Grell, E. Bamberg and H. Betz (F.R.G.) 36

Selective internalization of choline-phospholipids in *Plasmodium falciparum* parasitized human erythrocytes
A.P. Simões, G.N. Moll, A.J. Slotboom, B. Roelofsen and J.A.F. Op den Kamp (The Netherlands) 45

Zinc binding in intestinal brush-border membrane isolated from pig
F. Tacnet, D.W. Watkins and P. Ripoche (France, U.S.A.) 51

The nature of the conductance increase induced by filipin in cholesterol-containing planar lipid bilayers
J. Krawczyk and S. Cukierman (U.S.A.) 60

Quasielastic neutron scattering measurements of fast local translational diffusion of lipid molecules in phospholipid bilayers
J. Tabony and B. Perly (France) 67

Comparison of a Na^+/D-glucose cotransporter from rat intestine expressed in oocytes of *Xenopus laevis* with the endogenous cotransporter
W.-M. Weber, B. Püschel, J. Steffgen, H. Koepsell and W. Schwarz (F.R.G.) 73

Identification and characterization of nuclear location signal-binding proteins in nuclear envelopes
S. Pandey and V.K. Parnaik (India) 81

Insulin regulates Na^+/glucose cotransporter activity in rat small intestine
Y. Fujii, M. Kaizuka, F. Hashida, J. Maruo, E. Sato, H. Yasuda, T. Kurokawa and S. Ishibashi (Japan) 90

Lipid–alginate interactions render changes in phospholipid bilayer permeability
S. Cohen, M.C. Bañó, M. Chow and R. Langer (U.S.A.) 95

Cl^- permeability of the basolateral membrane of the *Rana esculenta* epithelium: activation of Cl^-/HCO_3^- exchange by alkaline intracellular pH
I. Lacoste, B.J. Harvey and J. Ehrenfeld (France) 103

N-Ethylmaleimide and mercurials modulate inhibition of the mitochondrial inner membrane anion channel by H^+, Mg^{2+} and cationic amphiphiles
A.D. Beavis (U.S.A.) 111

Altered properties of calsequestrin and the ryanodine receptor in the cardiac sarcoplasmic reticulum of hibernating mammals
R.E. Milner, M. Michalak and L.C.H. Wang (Canada) 120

Proton nuclear magnetic resonance studies on the molecular dynamics of plasmenylcholine/cholesterol and phosphatidylcholine/cholesterol bilayers
X. Han and R.W. Gross (U.S.A.) 129

Functional size of complement and perforin pores compared by confocal laser scanning mi-

continued

croscopy and fluorescence microphotolysis
H. Sauer, L. Pratsch, J. Tschopp, S. Bhakdi and R. Peters (F.R.G., Switzerland) 137
Characteristics of spectrin-induced leakage of extruded, phosphatidylserine vesicles
N.K. Subbarao, R.I. MacDonald, K. Takeshita and R.C. MacDonald (U.S.A.) 147
Changes in amino acid and glucose transport in brush-border membrane vesicles of hyperglycemic guinea-pig small intestine
O. Satoh, S.-y. Koyama, K. Yamada and T. Kawasaki (Japan) 155
Physicochemical determinants for the interactions of magainins 1 and 2 with acidic lipid bilayers
K. Matsuzaki, M. Harada, S. Funakoshi, N. Fujii and K. Miyajima (Japan) 162

Reports

Kinetics of melittin binding to phospholipid small unilamellar vesicles
K.M. Sekharam, T.D. Bradrick and S. Georghiou (U.S.A.) 171
Phase separation of Triton X-100 micelle solution induced by osmotic stress
M. Yamazaki, M. Ohshika and T. Ito (Japan) 175

Regular Papers

Transport parameters in the human red cell membrane: solute-membrane interactions of amides and ureas
M.R. Toon and A.K. Solomon (U.S.A.) 179
Conformational studies of amphipathic α-helical peptides containing an amino acid with a long alkyl chain and their anchoring to lipid bilayer liposomes
T. Kato, S. Lee, S. Ono, Y. Agawa, H. Aoyagi, M. Ohno and N. Nishino (Japan) 191
Protein-catalyzed transport of ether phospholipids
G. Szolderits, G. Daum, F. Paltauf and A. Hermetter (Austria) 197
Kinetics of hemolysis of normal and abnormal red blood cells in glycerol-containing media
A. Sauer, T. Kurzion, D. Meyerstein and N. Meyerstein (Israel) 203
Small unilamellar vesicles are able to fuse with *Mycoplasma capricolum* cells
M. Salman, M. Tarshis and S. Rottem (Israel) 209
Phosphorylation of Na,K-ATPase by acetyl phosphate and inorganic phosphate. Sidedness of Na^+, K^+ and nucleotide interactions and related enzyme conformations
G. Berberián and L. Beaugé (Argentina) 217
Chemical modification of rat liver microsomal cytochrome *P*-450: study of enzymic properties and membrane topology
B.C. Kunz, G. Vergères, K.H. Winterhalter and C. Richter (Switzerland) 226
Localization of the N-terminal methionine of rat liver cytochrome *P*-450 in the lumen of the endoplasmic reticulum
G. Vergères, K.H. Winterhalter and C. Richter (Switzerland) 235
Lipid arrangement in fluid model membranes: analysis by cross-linking of phosphatidylethanolamines
M.R. Roth and R. Welti (U.S.A.) 242
Nucleotide and DNA uptake by *Neurospora crassa*: involvement of an uptake stimulating protein
G. Tóth and G. Szabó (Hungary) 247
The temperature dependence of some kinetic and conductance properties of acetylcholine receptor channels
J.P. Dilger, R.S. Brett, D.M. Poppers and Y. Liu (U.S.A.) 253
EPR studies on the influence of chainlength on the segmental motion of spin-labelled fatty acids in dimyristoylphosphatidylcholine bilayers
M.D. Reboiras and D. Marsh (F.R.G.) 259

Report

Half-life of the plasma membrane ATPase and its activating system in resting yeast cells
B. Benito, E. Moreno and R. Lagunas (Spain) 265

Author Index 271